

In the Claims:

1. (Currently Amended) Authentication apparatus comprising:
a communicator, for communicating, via an authenticatable link, with an authenticatable mobile device, for providing authentication of said authenticatable mobile device;
~~a verifier associated with said authenticatable mobile device to verify that the communication is with an intended one of authenticatable devices, and~~
an associator, operatively connected to said communicator, and operatively connected through an insecure or non-authenticated link to a non-authenticated device, for associating ~~thesaid verification~~authentication with an activity request ~~via a non authenticatable device, thereby to authenticate the activity request of the non authenticatable device;~~ and
an authentication communicator, operatively connected to said associator, for indicating that said activity request is approved.
2. (Currently Amended) The apparatus of claim 1, wherein said authenticatable mobile device is a GSM (global system mobile telecommunications) device and said authenticatable link is a GSM link.
3. (Currently Amended) The apparatus of claim 1, wherein said authenticatable mobile device is a CDMA (code division multiple access) device and said authenticatable link is a CDMA link.
4. (Currently Amended) The apparatus of claim 1, wherein said authenticatable mobile device is an IS-136 (second generation mobile phone system) device and said authenticatable link is an IS-136link.
5. (Currently Amended) The apparatus of claim 1, wherein said authenticatable mobile device is a PDC (personal digital cellular) device and said authenticatable link is a PDC link.

6. (Currently Amended) The apparatus of claim 1, wherein said authenticatable mobile device is an EDGE (enhanced data rates for global system mobile telecommunications evolution) device and said authenticatable link is an EDGE link.

7. (Currently Amended) The apparatus of claim 1, wherein said authenticatable mobile device is a WCDMA (wideband code division multiple access) device and said authenticatable link is a WCDMA link.

8. (Currently Amended) The apparatus of claim 1, wherein said authenticatable mobile device is a GPRS (general packet radio service) device and said authenticatable link is a GPRS link.

9. (Currently Amended) The apparatus of claim 1, wherein said authenticatable mobile device is an Iridium (network protocol) device and said authenticatable link is an Iridium link.

10. (Currently Amended) The apparatus of claim 1, wherein said ~~secure~~authenticatable link involves a subscriber identity module located at said ~~secure~~authenticatable mobile device.

11. (Currently Amended) The apparatus of claim 1, wherein said authenticatable link is a secure link utilizing a subscriber identity module located at said authenticatable mobile device.

12. (Currently Amended) The apparatus of claim 1, wherein said authenticatable mobile device is a mobile telephone.

13. (Currently Amended) The apparatus of claim 1, wherein said ~~communication~~communicating comprises an electronic data communication.

14. (Original) The apparatus of claim 13, wherein said electronic data communication comprises electronic messaging.

15. (Currently Amended) The apparatus of claim 14, wherein said electronic messaging comprises SMS (short messaging service) messaging.

16. (Currently Amended) The apparatus of claim 14, wherein said electronic messaging comprises WAP (wireless application protocol).

17. (Currently Amended) The apparatus of claim 14, wherein said electronic messaging comprises email.

18. (Currently Amended) The apparatus of claim 14, wherein said electronic messaging comprises EMS (enhanced messaging service).

19. (Currently Amended) The apparatus of claim 14, wherein said electronic messaging comprises MMS (multimedia messaging system).

20. (Currently Amended) The apparatus of claim ~~14~~1, wherein said ~~communicator comprises functionality to~~non-authenticated device initiate~~starts~~ said ~~communication~~communicating by sending an ~~initial message to said authenticatable device~~ and functionality to receive a reply to said initial message from said authenticatable device, ~~therewith to authorize said activity request~~ through said insecure or non-authenticated link.

21. (Currently Amended) The apparatus of claim ~~14~~1, wherein said communicator comprises functionality to receive an initializing communication from either one of said authenticatable mobile device and said ~~non-authenticatable~~non-authenticated device, and functionality to send a reply to said initial message, ~~therewith to authorize said activity request~~.

22. (Currently Amended) The apparatus of claim ~~14~~1, wherein said communicator comprises functionality to receive an initializing communication from an external device and functionality to establish a link between said authenticatable mobile device and said ~~non-authenticatable~~non-authenticated device, ~~therewith to authorize said activity request~~.

23. (Currently Amended) The apparatus of claim ~~141~~, wherein ~~said communicator involves functionality to receive a message from said authenticatable mobile device and functionality to complete~~starts ~~said communication~~communicating by sending a ~~response thereto~~message to said ~~secure authenticatable device~~communicator, followed by said communicator sending a reply to said authenticatable mobile device, thereby to authorize said activity request.

24. (Currently Amended) The apparatus of claim ~~20~~23, wherein said communicator ~~comprises functionality to insert~~provides an identifier ~~into~~with said reply for a ~~requesting party to enter~~use via said ~~non-authenticatable~~non-authenticated device, and wherein said verifier further comprises functionality to determine whether said identifier have been received via said ~~non-authenticatable device~~.

25. (Currently Amended) The apparatus of claim 1, wherein said communicator is operable to use an automatic voice for communicating with said authenticatable mobile device.

26. (Currently Amended) The apparatus of claim 1, wherein said authenticatable mobile device is associated with a payment account, said apparatus further comprising functionality to charge said ~~requested activity~~request to said payment account.

27. (Currently Amended) The apparatus of claim 1, wherein said ~~requested activity~~request is an Internet browsing activity.

28. (Currently Amended) The apparatus of claim 1, wherein said ~~requested activity~~request is a point of sale activity.

29. (Currently Amended) The apparatus of claim 1, wherein said ~~requested activity~~request is access to a network.

30. (Currently Amended) The apparatus of claim 29, ~~operable to connect to said non-authenticatable device~~wherein said access to said network is via infra-red access points.

31. (Currently Amended) The apparatus of claim ~~1~~29, ~~operable to connect to said non-authenticatable device~~wherein said access to said network is via Bluetooth (wireless personal area network) access points.

32. (Currently Amended) The apparatus of claim ~~1~~29, ~~operable to connect to said non-authenticatable device~~wherein said access to said network is via at least one LAN (local area network) access points or via WLAN/WAN (wide area network) access pointpoints.

33. (Currently Amended) The apparatus of claim 1, being connectable to said ~~non-authenticatable~~non-authenticated device via a TCP/IP link.

34. (Currently Amended) The apparatus of claim 1, wherein said communicator is operable to obtain a telephone number for communicating with said authenticatable mobile device, from said ~~non-authenticatable~~non-authenticated device.

35. (Currently Amended) The apparatus of claim 1, wherein said communicator is operable to obtain identification data, from said ~~non-authenticatable~~non-authenticated device, ~~for forming~~as part of said associationassociating.

36. (Currently Amended) The apparatus of claim 1, wherein said ~~non-authenticatable~~non-authenticated device is any one of a group comprising a credit card, a smart card, an infra-red device, a Bluetooth (wireless personal area network) device, a PDA (personal digital assistant), a mobile computer, a fixed computer, and a network of computers.

37. (Currently Amended) The apparatus of claim 1, further comprising a ~~counter~~timer for timing said ~~communication~~authenticating, and to ~~fail~~timeout said ~~authorization~~authenticating if ~~said communication is not completed by~~after a predetermined time limit.

38. (Currently Amended) The apparatus of claim 1, further comprising a log-in functionality for logging in ~~the~~said ~~non-authenticatable~~non-authenticated device.

39. (Cancelled).

40. (Currently Amended) The apparatus of claim 39~~1~~, wherein said authentication communicator is operable to communicate said ~~authentication~~approved activity request to an external gateway associated with said ~~non-authenticatable~~non-authenticated device.

41. (Currently Amended) The apparatus of claim 39~~1~~, wherein said authentication communicator is operable to communicate said ~~authentication~~approved activity request to a server associated with said ~~requested~~activity request.

42. (Currently Amended) The apparatus of claim 39~~1~~, wherein said authentication communicator is operable to communicate said ~~authentication~~approved activity request to a router, ~~by~~involving applying a change to a routing table on a ~~said~~ router.

43. (Withdrawn) A personal transaction card compatible with ATM machines, comprising, in ATM readable format, an ATM routing number and a mobile telephone number, said mobile telephone number being associated with an owner of said personal transaction card.

44. (Withdrawn) The personal transaction card of claim 43, wherein said numbers are stored on a magnetic strip.

45. (Withdrawn) The personal transaction card of claim 43, wherein said numbers are stored in an internal integrated circuit.

46. (Currently Amended) Authentication method comprising:
communicating, by a communicator, via a ~~secure~~ authenticatable link,
with an authenticatable mobile device, for providing authentication of said authenticatable mobile device;
~~verifying that the communication is with an intended one of authenticatable devices, and~~

associating ~~the~~said verification authentication with an activity request, ~~via a non-authenticatable device, thereby to authenticate the activity request of the non-authenticatable device.~~by an associator operative with said communicator, and operative through an insecure or non-authenticated link with a non-authenticated device; and

indicating that said activity request is approved, by an authentication communicator operative with said associator.

47. (Currently Amended) The method of claim 46, wherein said authenticatable mobile device is a GSM (global system mobile telecommunications) device and said authenticatable link is a GSM link.

48. (Currently Amended) The method of claim 46, wherein said authenticatable mobile device is a CDMA (code division multiple access) device and said authenticatable link is a CDMA link.

49. (Currently Amended) The method of claim 46, wherein said authenticatable mobile device is an IS-136 (second generation mobile phone system) device and said authenticatable link is an IS-136 link.

50. (Currently Amended) The method of claim 46, wherein said authenticatable mobile device is a PDC (personal digital cellular) device and said authenticatable link is a PDC link.

51. (Currently Amended) The method of claim 46, wherein said authenticatable mobile device is an ~~edge~~EDGE (enhanced data rates for global system mobile telecommunications evolution) device and said authenticatable link is an ~~edge~~EDGE link.

52. (Currently Amended) The method of claim 46, wherein said authenticatable mobile device is a WCDMA (wideband code division multiple access) device and said authenticatable link is a WCDMA link.

53. (Currently Amended) The method of claim 46, The method of claim 46, wherein said authenticatable mobile device is a GPRS (general packet radio service) device and said authenticatable link is a GPRS link.

54. (Currently Amended) The method of claim 46, wherein said authenticatable mobile device is an Iridium (network protocol) device and said authenticatable link is Iridium link.

55. (Currently Amended) The method of claim 46, wherein said authenticatable link comprises a secure link involving a subscriber identity module located at said authenticatable mobile device.

56. (Currently Amended) The method of claim 47, wherein said ~~secure~~authenticatable link involves a subscriber identity module located at said authenticatable mobile device.

57. (Currently Amended) The method of claim 46, wherein said authenticatable mobile device is a mobile telephone.

58. (Currently Amended) The method of claim 46, wherein said ~~communication~~communicating comprises electronic data communication.

59. (Original) The method of claim 58, wherein said electronic data communication comprises electronic messaging.

60. (Currently Amended) The method of claim 59, wherein said electronic messaging comprises SMS (short messaging service) messaging.

61. (Currently Amended) The method of claim ~~60~~46, ~~comprising~~wherein ~~initiating~~ said ~~communication~~communicating starts by said non-authenticated device sending an initial message to said authenticatable device and functionality to receive a reply to said initial message from said authenticatable device, therewith to authorize said activity request through said insecure or non-authenticated link.

62. (Currently Amended) The method of claim ~~60~~46, wherein said communicating ~~involves~~starts by said communicator receiving a message from said authenticatable mobile device, and ~~completing said communication by~~followed by said

communicator sending a ~~response~~reply thereto to said authenticatable mobile device, thereby to ~~authorize said activity request~~.

63. (Currently Amended) The method of claim 62, ~~comprising inserting wherein~~ a password is provided into said reply, for a ~~requesting party to enter~~use via said ~~non-authenticatable~~non-authenticated device, and ~~determining whether said password has been received via said non-authenticatable device~~.

64. (Currently Amended) The method of claim 46, comprising using an automatic voice for communicating with said authenticatable mobile device.

65. (Currently Amended) The method of claim 46, wherein said authenticatable mobile device is associated with a payment account, said method further comprising charging said ~~requested activity request~~ to said payment account.

66. (Currently Amended) The method of claim 46, wherein said ~~requested activity request~~ is an Internet browsing activity.

67. (Currently Amended) The method of claim 46, wherein said ~~requested activity request~~ is a point of sale activity.

68. (Currently Amended) The method of claim 46, wherein said ~~requested activity request~~ is access to a network.

69. (Currently Amended) The method of claim ~~46~~68, ~~comprising using wherein~~ said access to said network is via infra-red access points.

70. (Currently Amended) The method of claim ~~46~~68, ~~comprising using bluetooth wherein~~ said access to said network is via Bluetooth (wireless personal area network) access points.

71. (Currently Amended) The method of claim 46, wherein said ~~non-authenticatable~~insecure or non-authenticated device link being a TCP/IP link.

72. (Currently Amended) The method of claim 46, comprising obtaining a telephone number for communicating with said authenticatable mobile device, from said ~~non-authenticatable~~non-authenticated device.

73. (Currently Amended) The method of claim 46, wherein said ~~non-authenticatable~~non-authenticated device is any one of a group comprising a credit card, a smart card, an infra-red device, a Bluetooth (wireless personal area network) device, a PDA (personal digital assistant), a mobile computer, a fixed computer, and a network of computers.

74. (Currently Amended) The method of claim 46, further comprising timing said ~~communication~~authenticating, and to ~~fail~~timeout said ~~authorization~~authenticating if ~~said communication is not completed by~~after a predetermined time limit.

75. (Currently Amended) The method of claim 46, further comprising a logging in procedure for logging in ~~the~~said ~~non-authenticatable~~non-authenticated device.

76. (Cancelled).

77. (Currently Amended) The method of claim ~~76~~46, wherein said ~~indication~~indicating of said approved activity request is output to an external gateway associated with said ~~non-authenticatable~~non-authenticated device.

78. (Currently Amended) The method of claim ~~76~~46, wherein said ~~indication~~indicating of said approved activity request is output to a server associated with said ~~requested-activity~~request.

79. (Currently Amended) The method of claim ~~76~~46, wherein said ~~indication~~indicating of said approved activity request is output to a router, ~~by~~involving applying a change to a routing table on ~~a~~said router.